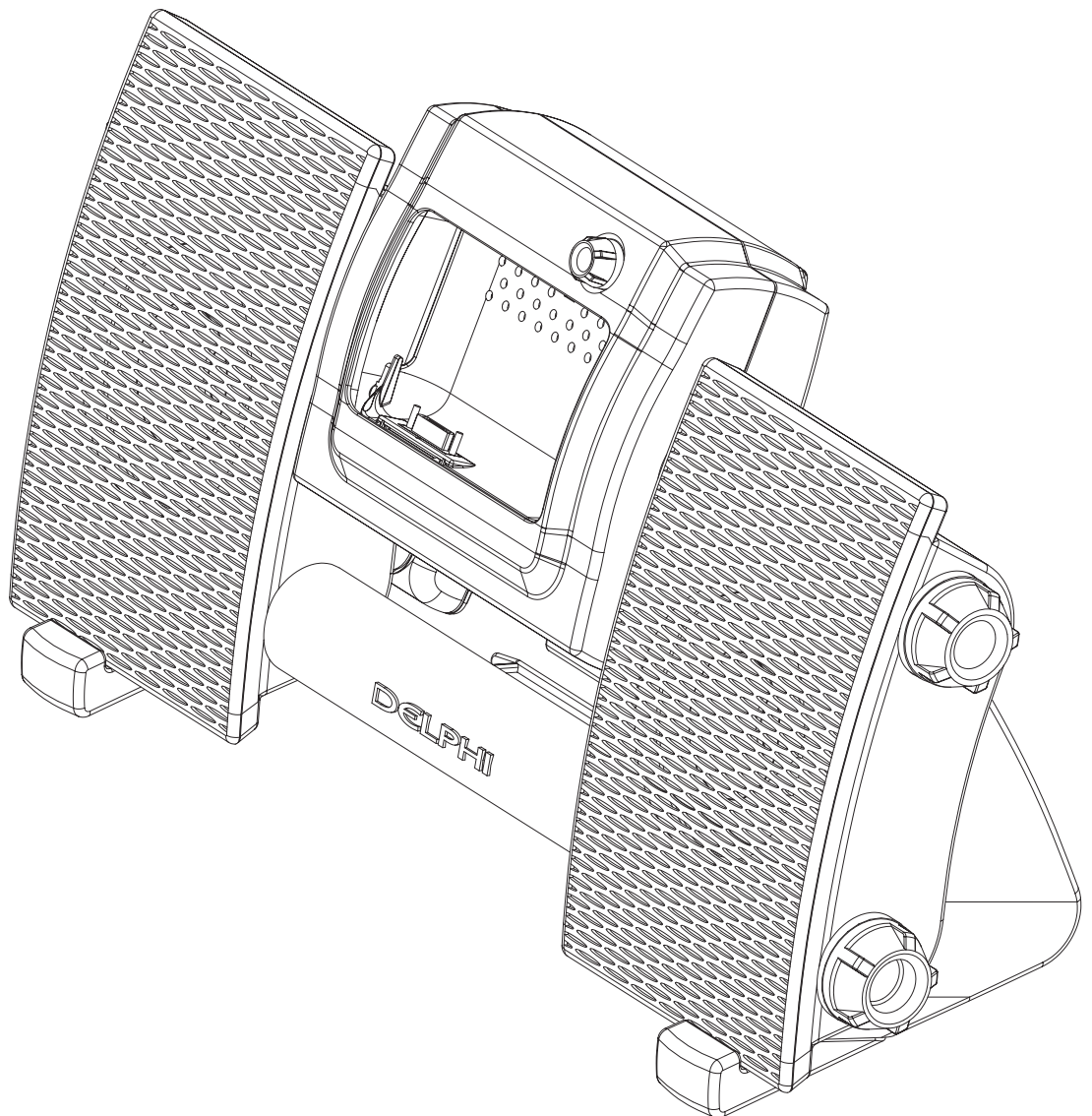


# DELPHI



# CD audio system

## Owner's Manual



**⚠** This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Requires a subscription from XM Satellite Radio.

**SA10034-11B1**

## Owner's Record


The model number is located at the bottom and the serial number is located on the label at the back of the Delphi CD Audio System. Record the serial number in the space provided below. Refer to these numbers when contacting your dealer regarding this product.

Model No.: DELPHI SA10034-11B1

Serial No.: \_\_\_\_\_

**WARNING:** To prevent fire or shock hazard, do not expose the Delphi CD Audio System to rain or moisture.

	<b>CAUTION</b> <b>RISK OF ELECTRIC SHOCK</b> <b>DO NOT OPEN</b>	
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

 This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

# CONTENTS

## Section 1

### *Delphi CD Audio System*

Components .....	2
------------------	---

## Section 2

### *Key Functions*

CD Panel .....	3
Remote Control .....	3

## Section 3

### *Basic Operations*

#### CD/MP3, AM/FM, Clock Module

Playing Audio CD or MP3 Files .....	4
CD/MP3 Programming Options .....	4
Displaying Information .....	5
About MP3 .....	6
AM/FM Radio Operation .....	6
Adjusting the Tone (Bass and Treble) ....	6
Clock Functions .....	7

#### SKYFi™ Module

Set-up .....	7
Positioning the XM® Antenna .....	8
Optimizing Antenna Signal .....	9
Antenna Mounting/Installation .....	9
Controlling Volume, Bass, and Treble ....	10

#### System Sound Output Options

Adjusting Speaker Balance .....	11
Muting the Sound .....	11
Headphones .....	11

Battery Operation .....	11
-------------------------	----

## Section 4

### *Reference*

Caring for Your Delphi CD Audio System ....	12
Precautions .....	12
Troubleshooting .....	13
Contacting Customer Service .....	14
Technical Information .....	14

## Section 5

<i>Warranty</i> .....	15
-----------------------	----

## Delphi CD Audio System

The Delphi CD Audio System delivers multiple audio playback options—all in one very smart, perfectly portable package. Choose between these options for your listening enjoyment: XM Satellite Radio with your XM SKYFi Receiver (Delphi model number SA10000, sold separately), compact disc playback (including CD-R, CD-RW, and MP3 files), or AM/FM radio. A rotating multifunction central unit allows you to select the module of your choice.

Before operating your Delphi CD Audio System, connect the supplied 12V A/C power adaptor to the jack on the rear of the unit (Figure 2), and the other end to a wall outlet. (For battery operation, see page 11.) When the system powers up, it will play in the last mode selected.

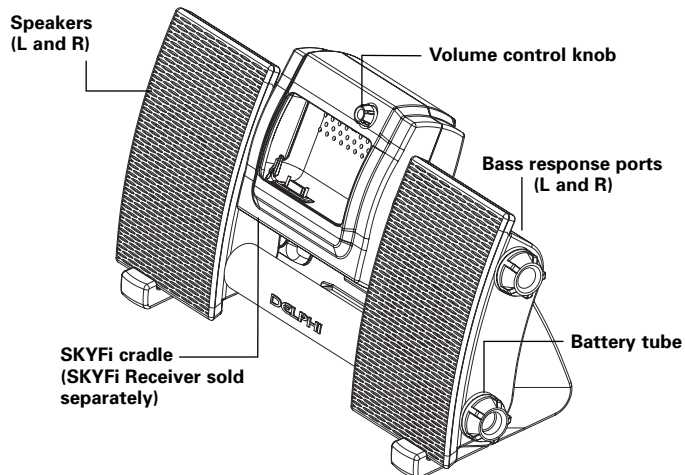
The central unit of the Delphi CD Audio System rotates forward and back 180 degrees. Please follow the direction of the arrows on the top left corner of each side when rotating. **CAUTION: Do not use excessive force, which could damage the Delphi CD Audio System.** Before rotating the central unit:

- Store excess cable on the tab on the back of the lower tube so that the antenna cable does not interfere with rotation
- Retract the telescoping FM antenna and snap it into its storage well

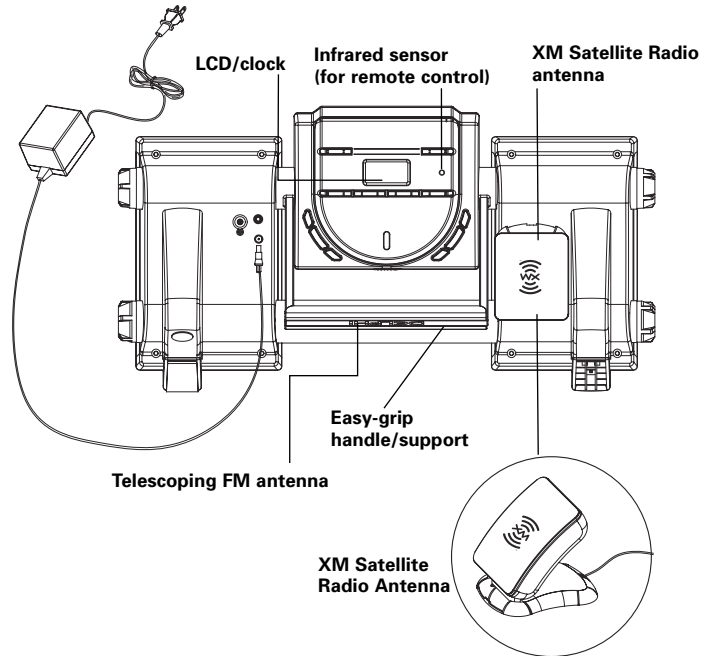
## COMPONENTS

The following components are included with your Delphi CD Audio System:

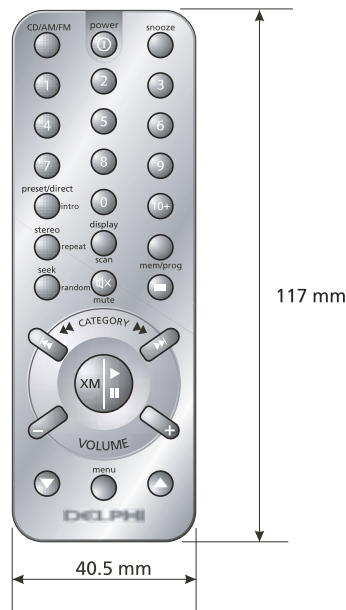
**Figure 1: Delphi CD Audio System – Front View (SKYFi Module)**



**CAUTION:** The two-inch-long bass response ports on either side of the top tube on your Delphi CD Audio System are designed to maximize air-flow to the speakers for improved bass response. Inserting objects into these openings may impair speaker function and can damage the unit.



**Figure 2: Delphi CD Audio System – Rear View (CD/MP3, AM/FM Radio Module)**



**Figure 3: Delphi CD Audio System Remote Control**

# Key Functions

## CD PANEL

**PWR (POWER)** turns the unit on and off.

**VOL (VOLUME)** adjusts the volume up and down. The up and down arrows on the Volume key also enable selection and programming of Menu functions.

**MENU** changes Mode 1 (CD/MP3, AM/FM, and clock) submenu functions in this order: CLOCK, TMR (timer), SLEEP, EQ, BBS (bass boost), TREBLE, BALANCE, CD TIMEMODE, and ID3.

**PLAY** toggles between play and pause in CD/MP3 mode.

**STOP** changes the radio frequency band in AM/FM mode; in CD/MP3 mode, pressing this key can halt CD/MP3 playback, cancel programming, or clear programs stored in memory.

**MODE** toggles between the AM/FM tuner and CD/MP3 functions.

Short press <1.5 seconds  
Long press >1.5 seconds

**SCAN** searches for next or previous AM/FM stations with a strong signal only. Press once to scan; press a second time to select a station.

**TUNE** manually searches up and down AM/FM frequency bands.

**SEEK** searches AM/FM stations stored in memory; press this key once to begin searching; press a second time to select a station.

**PREV (PREVIOUS)** jumps to the previous track (short press) or rewinds the current track (long press) in CD/MP3 mode. This key also enables selection of MP3 directories.

**NEXT** jumps to the next track (short press) or plays the current track fast forward (long press) in CD/MP3 mode. This key also enables selection of MP3 folders.

**MEMORY** programs CD/MP3 track numbers to play in a specified order. In AM/FM mode, this key stores stations in memory (FM 1 to 18; AM 1 to 12). This key is also used to set the clock and timer in conjunction with the Volume key.

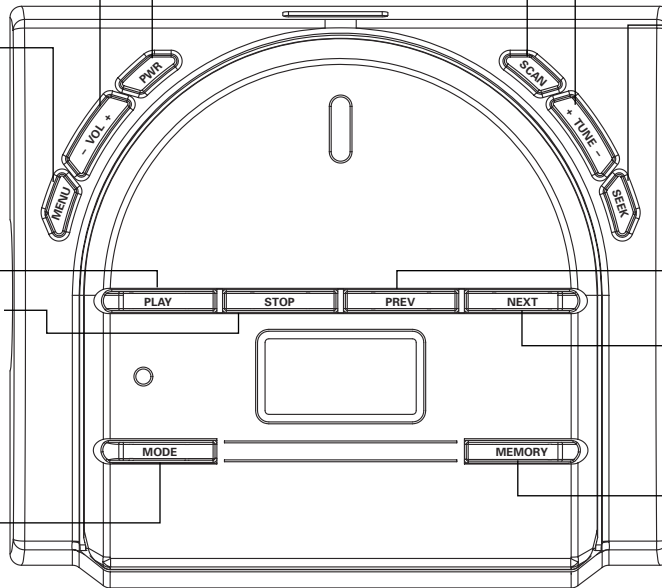


Figure 4: CD Panel Key Functions

SECTION 2

**POWER** turns the unit on and off.

**CD/AM/FM** toggles between CD/MP3 mode and the AM/FM tuner.

**PRESET/DIRECT/INTRO** plays "intro" information (the first 10 seconds) in CD mode (for normal CDs only; MP3 has no such function). In SKYFi mode, this key scrolls through preset banks and Direct Entry\*.

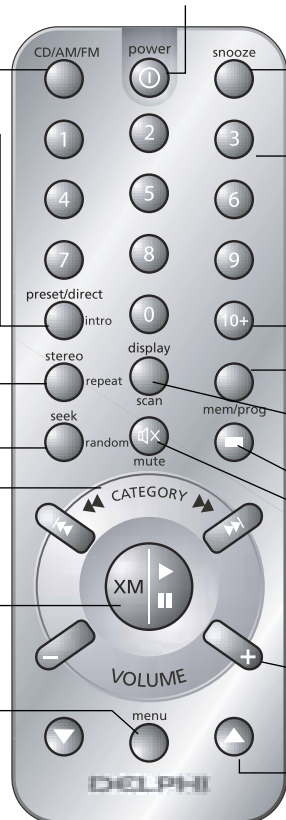
**STEREO/REPEAT** toggles between "Stereo" and "Mono" on the FM band in AM/FM mode. This key controls various repeat play options in CD/MP3 mode.

**SEEK/RANDOM** recalls station memory locations in AM/FM mode. This key enables random playback in CD/MP3 mode.

**CATEGORY** keys work in CD/MP3 mode to jump to the previous track or next track (short press) or fast-forward or rewind the current track (long press). In SKYFi mode, these keys scroll through XM Satellite Radio programming categories\*.

**ENTER** presets AM/FM stations in AM/FM mode, programs play options in CD/MP3 mode, and toggles between "play" and "pause" during CD/MP3 playback. In SKYFi mode, this key is used to select channels and menu functions\*.

**MENU** changes Mode 1 (CD/MP3, AM/FM, and clock) submenu functions. In SKYFi mode, press this key to select and change receiver configuration options\*.



**SNOOZE** stops CD/MP3 or AM/FM play for 7 minutes when the Delphi CD Audio System is set to function as an alarm clock.

**NUMBER KEYS 0-9** provide direct access to stored stations in AM/FM mode and programmed tracks in CD/MP3 mode. In SKYFi mode, these keys are used to select channels or presets directly\*.

**10+** direct selects presets (for all modes) in numbered locations higher than 10\*.

**MEM/PROG (MEMORY/PROGRAM)** programs CD/MP3 track numbers to play in a specified order. In AM/FM mode, this key stores stations in memory (FM: 1 to 18, AM: 1 to 12). This key is also used to set the clock and timer in conjunction with the Volume +/- keys.

**DISPLAY/SCAN** scans preset AM/FM stations (short press) or automatically stores stations in memory (long press).

**STOP** halts CD/MP3 playback, cancels programming, or clears programs stored in memory.

**MUTE** mutes the sound during CD/MP3 and AM/FM play. In SKYFi mode, this key sets different display options\*.

**VOLUME +/- KEYS** adjust the volume up and down. These keys also enable selection and programming of Menu functions.

**DOWN AND UP ARROWS** enable selection of MP3 folders in CD/MP3 mode; in SKYFi mode, these arrows change to the next or previous channel\*.

\*Refer to the SKYFi Operating Guide for more specific information on operating your SKYFi Receiver.

Figure 5: Remote Control Key Functions

## Basic Operations

### CD/MP3, AM/FM, CLOCK MODULE

#### Playing Audio CD or MP3 Files

The Delphi CD Audio System can play CDs, CD-Rs, and CD-RWs recorded in Compact Disc Digital Audio (CD-DA) format, as well as MP3 files recorded in CD-ROM format\*\*. Playback may vary depending on the quality of the compact disc and the condition of the recording device.

*To play compact discs:*

1. Rotate the central unit so that the CD panel faces forward. Be sure to follow the arrows when rotating the unit. Complete the rotation until the unit locks in position. **CAUTION: Do not use excessive force, which could damage the unit.**
2. Press "Power" on the CD panel or remote control.
3. Holding the central unit steady, open the compartment lid and insert a compact disc in the CD player.
4. Close the CD compartment lid.

Before playing a compact disc, your Delphi CD Audio System reads all file and directory information on the CD. Depending on file structure, this may take more than one minute. "READING" is displayed during this time. The first track on the CD will begin to play automatically. At the same time, information about the disc will display.

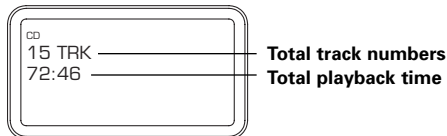


Figure 6: Initial CD Display

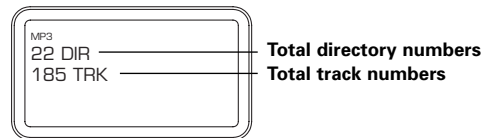


Figure 7: Initial MP3 Display

#### Proper Care and Storage of Compact Discs

Scratches, dirt, and fingerprints on the surface of compact discs may cause tracking errors. For optimum sound quality:

- Compact discs should be cleaned before playing; using a dry, soft cloth, wipe from the center out, never in a circular motion
- Do not clean compact discs with benzene or other solvents, commercially available cleaners, or antistatic spray intended for vinyl LPs
- Store CDs in their cases when not playing
- Do not allow CDs to be exposed to direct sunlight or heat sources
- Do not tape paper or apply stickers to CDs

#### CD/MP3 Programming Options

Your Delphi CD Audio System lets you program the playing order of up to 30 CD/MP3 tracks or MP3 directories.

##### CD Program Play

To program the playing order of tracks on a CD:

1. In CD/MP3 mode, stop playback.
2. Press "Memory" on the CD panel or "mem/prog" on the remote. "P01\_ \_" will flash on the LCD.
3. Press "Next" or "Prev" on the CD panel or the category keys or numeric keys on the remote to select a track number.
4. Press "Memory" or "mem/prog" to confirm.
5. "P02\_ \_" will flash. Continue Steps 3 and 4 until all tracks have been selected (up to a maximum of 30).
6. Press "Play" on the CD panel or the enter key on the remote to play.

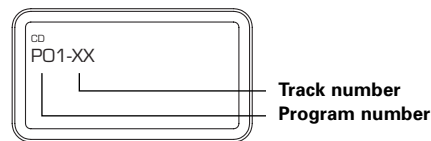


Figure 8: Display During CD Programming

##### MP3 Program Play

To program the playing order of tracks or directories on an MP3:

1. In CD/MP3 mode, stop playback.
2. Press "Memory" on the CD panel or "mem/prog" on the remote. "P01\_ \_ \_ - \_ \_" will display and the first three \_ \_ \_ (dashes in the register) will flash on the LCD.
3. Press "Next" or "Prev" on the CD panel or the category keys or numeric keys on the remote to select a directory.

\*\*Recording MP3 files for the Delphi CD Audio System may require the use of "Full Version" CD-burning software packages (e.g., EasyCD Creator™ or Nero™).

- Press "Memory" or "mem/prog" to confirm the selected directory.
- The last three \_\_\_ (dashes in the register) will flash.
- Press "Next" or "Prev" on the CD panel or the category keys on the remote to select a track number.
- Press "Memory" or "mem/prog" to confirm. "P02\_\_\_\_\_" and the first three \_\_\_ (dashes in the register) will flash on the LCD.
- Continue Steps 3 through 7 until all tracks or directories have been selected (up to a maximum of 30).
- Press "Play" on the CD panel or the enter key on the remote to play.

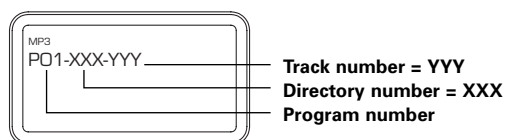


Figure 9: Display During MP3 Programming

#### Cancel/Delete Programs

Press "Stop" on the CD panel or remote to cancel programming.

To delete programs in memory, press "Stop" twice during program play.

#### Random Play (Remote Control Only)

At any time during CD/MP3 playback, press the Seek/Random key on the remote to play CD or MP3 tracks in random order.

#### Repeat Play Options (Remote Control Only)

##### Normal Compact Disc

- Press "stereo/repeat" to repeat a single track.
- Press "stereo/repeat" a second time to repeat all tracks on the CD.
- Press "stereo/repeat" a third time to disable the repeat function and return to normal play.

##### MP3 Disc

- Press "stereo/repeat" to repeat a single track.
- Press "stereo/repeat" a second time to repeat play of all tracks in the current directory.
- Press "stereo/repeat" a third time to repeat all tracks on the MP3 disc.
- Press "stereo/repeat" a fourth time to disable the repeat function and return to normal play.

## Displaying Information

### Display Elapsed and Remaining Playing Time

While in CD/MP3 mode, press the Menu key nine times to enter CD TMODE. Press the Vol+ key on the CD panel or Vol+ on the remote to display elapsed playing time. Press the -Vol key on the CD panel or Vol- on the remote to display remaining playing time.

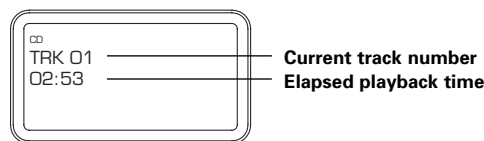


Figure 10: Elapsed Playback Time - CD Playback

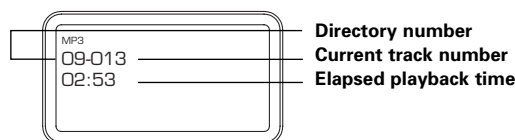


Figure 11: Elapsed Playback Time - MP3 Playback

### Display ID3 Information (MP3 Only)

The Delphi CD Audio System conforms to Version 1.1 of the ID3 tag format. ID3 information (song title, artist name, and album name) can be displayed for CD/MP3 files created with this information. To display ID3 information:

- During MP3 playback only, press the Menu key on the CD panel or remote 10 times, then hold to enter the ID3 submenu. If available, ID3 data (song title, artist name, and album name) will scroll left across the display once, and then elapsed playing time will display.
- Press "Menu" again to release.

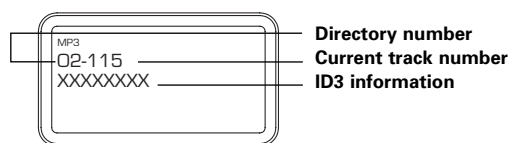


Figure 12: ID3 Display

The Delphi CD Audio System can display MP3 directory and file names up to 64 characters long. Eight characters at a time will scroll left across the LCD. The characters A-Z, a-z, 0-9, and \_ can display.

**Note:** If there is no name for a particular directory, or if the MP3 was not created with ID3 information, "CURRENT" will appear in the display.

## About MP3

MP3 (MPEG 1 Audio Layer-3) is a standard technology and format for compressing a sound sequence. Each file, or track, is compressed to one-tenth of its original size.

In order to play MP3 files in the Delphi CD Audio System, files must have been created according to the following requirements:

**Usable media** – CD-Rs and CD-RWs

**Usable disc format** – ISO 9660 Level 1, Level 2, and Joliet extension format discs

**Maximum number of directories:** 255

**Maximum number of files:** 255

## AM/FM Radio Operation

### Listening to AM/FM Radio

To listen to AM/FM radio stations:

1. Rotate the central unit so that the CD panel faces forward. Be sure to follow the arrows when rotating the unit. Complete the rotation until the unit locks in position. **CAUTION: Do not use excessive force, which could damage the unit.**
2. Press "Power" on the CD panel or remote control.
3. Press "Mode" on the CD panel or "CD/AM/FM" on the remote control to select AM/FM mode.
4. Press "Stop" on the CD panel or "CD/AM/FM" on the remote until the desired band (AM or FM) appears in the display.
5. Press "Tune," "Seek," or "Scan" on the CD panel or the category keys on the remote until the desired station frequency shows in the display.

### Storing AM/FM Stations in Memory

To store AM/FM stations in memory:

1. Select the desired AM/FM station.
2. Press "Memory" on the CD panel or "mem/prog" on the remote.
3. With station frequency flashing on the display, press "Tune" on the CD panel or "prev/next" on the remote to select the desired memory location (FM 1 to 18; AM 1 to 12).
4. Press "Memory" or "mem/prog" again to select.

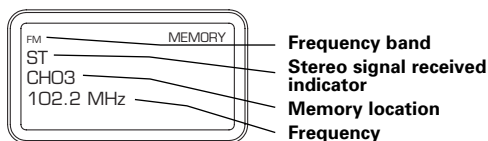


Figure 13: Display While Storing AM/FM Stations in Memory

### Seeking/Scanning

To search AM/FM stations manually:

Press "Tune" on the CD panel or "seek/random" on the remote. The frequency increases one step (200 KHz for FM or 10 KHz for AM) with each press. The display will repeat from the minimum if it reaches the maximum frequency. If the selected station matches one already stored in memory, the memory location (FM 1 to 18; AM 1 to 12) will display.

To search stations stored in memory one by one:

1. Press "Scan" on the CD panel or "display/scan" on the remote. If the received signal is strong, it will stay tuned for 5 seconds with the station frequency flashing.
2. Press "Scan" or "display/scan" a second time to select the station or allow the next station in memory to play automatically. Stored stations will continue to scan in this way until one is selected or until the tuner has returned to the initial (INT) frequency. "INT" will show in the display.

## Adjusting the Tone (Bass and Treble)

### Adjusting the Bass Level

To adjust the bass level:

1. Press the Menu key on the CD panel or remote to show Menu functions on the display.
2. Press the Menu key six times, then hold to enter the BASS submenu.
3. Press the Vol+ key on the CD panel or the Vol+ key on the remote to increase bass 1 dB per step to reach a maximum of +10 dB. Press the -Vol key on the CD panel or Vol- key on the remote to decrease bass 1 dB per step to reach a minimum of -10 dB.

### Activating Bass Boost (BBS)

To activate BBS:

1. Press the Menu key on the CD panel or remote to show Menu functions on the display.
2. Press the Menu key five times, then hold to enter the BBS submenu.
3. Press the Vol+ key on the CD panel or the Vol+ key on the remote to activate BBS. Press the -Vol key on the CD panel or the Vol- key on the remote to turn BBS off.

\*Refer to the SKYFi Operating Guide for more specific information on operating your SKYFi Receiver.



### Adjusting the Treble Level:

To adjust the treble level:

1. Press the Menu key on the CD panel or remote to show Menu functions on the display.
2. Press the Menu key seven times, then hold to enter the TREBLE submenu.
3. Press the Vol+ key on the CD panel or on the remote to increase treble 1 dB per step to reach a maximum of +10 dB. Press the –Vol key on the CD panel or the remote to decrease treble 1 dB per step to reach a minimum of -10 dB.

**Note:** If an AM/FM station is weak or noisy, you may want to decrease the treble.

### Equalizing Bass and Treble (EQ)

To equalize bass and treble:

1. Press the Menu key on the CD panel or remote to show Menu functions on the display.
2. Press the Menu key four times, then hold to enter the EQ (equalization) submenu.
3. Press +Vol or Vol– on the CD panel or the remote to select one of the EQ auto settings: Flat, Classic, Jazz, Rock, or Pop.

## Clock Functions

### Setting the Current Time

To set the current time:

1. Press the Menu key on the CD panel or remote to show Menu functions on the display.
2. Press the Menu key once to select the CLOCK submenu. (long press)
3. Press “Memory” on the CD panel or “mem/prog” on the remote to enable the time-set function. The hour will flash in the display.
4. Use the +Vol or Vol– on the CD panel or the remote to adjust the hour.
5. Press “Memory” or “mem/prog.” The minutes will flash in the display.
6. Use the Vol+/- keys to adjust the minutes.
7. Press and hold the Menu key to leave the CLOCK submenu. Or, if 5 seconds elapses with no action, the display will return to normal status.

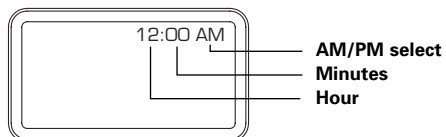


Figure 14: Time-Set Display

### Setting the WAKE time

To set the WAKE time

1. Press the MENU key on the CD panel or remote to show MENU functions on the display.
2. Press the MENU key twice, then press the VOL + on the CD panel or remote to set ALARM ON or press the VOL - on the CD panel or remote to set ALARM OFF.
3. Press and hold the MENU key, then press MENU key to set WAKE. Press MEMORY key to select Minutes or Hour (the Minutes and Hour will flash). Use the VOL + or VOL - on the CD panel or remote to adjust WAKE time. After one hour of the WAKE time, the unit will be automatically turned off, unless any key (except SNOOZE) is pressed.

### Using the Snooze Function (Remote Control Only)

When the timer is set to function as an alarm clock, you can use the Snooze key on your remote to stop CD/MP3 playback for 7-minute intervals. To use the Snooze function:

1. Press “snooze” to stop timed play. The unit will play again after 7 minutes. Repeat as necessary.
2. Press any key on the CD panel or remote to disable Snooze and turn off the unit.

### Programming Sleep Time

1. Press the Menu key on the CD panel or remote to show Menu functions on the display.
2. Press the Menu key three times to enter the SLEEP submenu.
3. Press the Vol+ key on the CD panel or the remote to turn sleep time OFF or to program to shut off after playing for 30, 60, 90, or 120 minutes.

## SKYFI MODULE

With the Delphi CD Audio System and your XM SKYFi Receiver (Delphi model number SA10000, sold separately), it's easy to enjoy XM Satellite Radio programming wherever you go! (Subscription required. Visit [www.xmradio.com](http://www.xmradio.com) for details.)

### Set-up

For SKYFi operation\*:

1. Rotate the central unit so that the SKYFi cradle faces forward. Be sure to follow the arrows when rotating the unit. Complete the rotation until the unit locks in position. **CAUTION: Do not use excessive force, which could damage the unit.**
2. Connect the XM antenna to the antenna jack. The 10-foot antenna cable can be used to position the antenna away from the Delphi CD Audio System for optimum reception. Alternatively, the cable may be wound around the tab on the rear of the lower tube (Figure 15), leaving just enough cable to reach the antenna while it is docked on the back of the speaker housing.

\*Refer to the *SKYFi Operating Guide* for more specific information on operating your SKYFi Receiver.

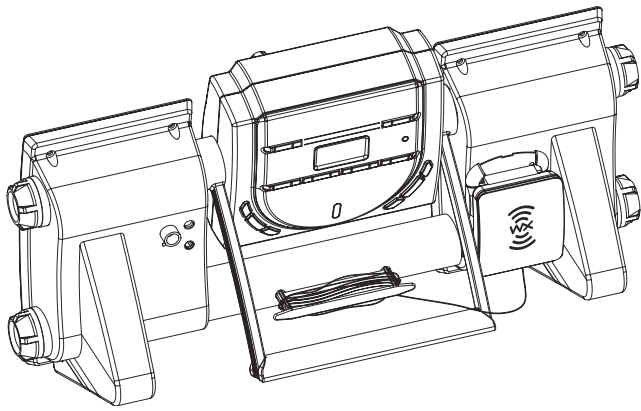


Figure 15

3. Holding the central unit steady, press the back of the inset cradle, then allow it to tilt forward. Carefully slide the SKYFi Receiver down into the cradle (Figure 16). The alignment slots on the receiver should line up with the tabs inside the cradle. At the same time, the receiver should be securely seated with the connector. Press the top center of the SKYFi Receiver display, tilting it back into the Delphi CD Audio System with a firm but gentle click. Remove the SKYFi Receiver by reversing this process (Figure 17).

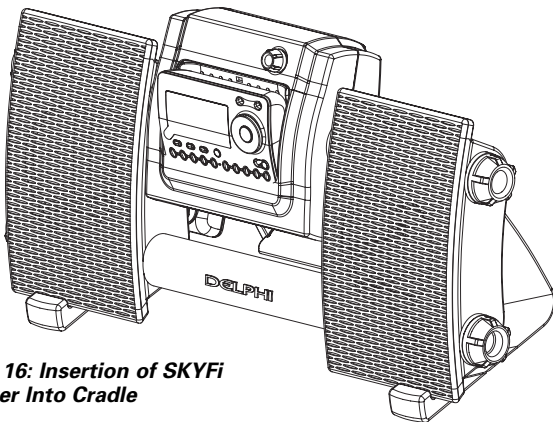


Figure 16: Insertion of SKYFi Receiver Into Cradle

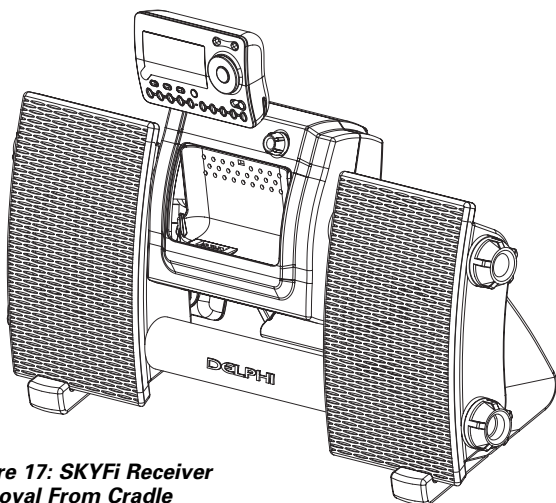


Figure 17: SKYFi Receiver Removal From Cradle

4. Press "Power" on the SKYFi Receiver or Delphi CD Audio System remote to power up SKYFi.
5. If the display reads "ANTENNA" after powering up, check that the antenna connection is secure and completely engaged. Next, change channels (from 0 to 1 or from 1 to 0 if the receiver is not yet activated). If the "ANTENNA" message remains, power down the radio, unplug the antenna, and look for any obvious damage to the connector, jack, or antenna cable. If no damage is detected, reconnect the antenna, turn the unit back on, and change channels again. Contact your retailer if the message still appears.
6. If the display reads "NO SIGNAL" after powering up, follow the instructions below and on page 9 for positioning the XM antenna and optimizing its signal.

Once the Delphi CD Audio System is set up and the SKYFi Receiver is inserted in its cradle, refer to the *SKYFi Operating Guide* for complete system operation and control information.

### Positioning the XM Antenna

The XM antenna that comes with your Delphi CD Audio System is a high-gain antenna that can receive XM's signal from XM's satellites and/or, depending on where you live, XM's land-based repeaters. It is recommended that the antenna be positioned near a south-facing window or outdoors with a clear view of the southern sky in order to receive the satellite signal. In some cases, it will be possible to receive XM's signal through standard home walls or a roof.

To position your antenna, first set up the Delphi CD Audio System as described earlier in this guide. Next, position the antenna until you receive the strongest possible satellite signal (refer to Optimizing XM Antenna Signal, page 9). If a satellite signal is not available, you can optimize your antenna for a terrestrial signal (signal from land repeater, where available).

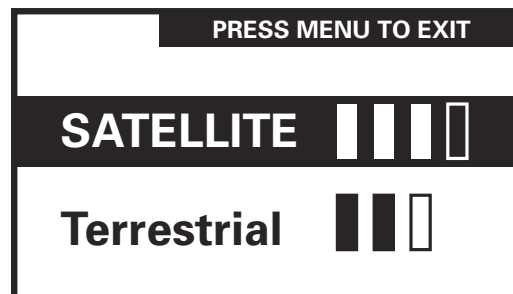


Figure 18

## Optimizing XM Antenna Signal

1. With the SKYFi cradle facing front, press the Power button on the SKYFi Receiver or Delphi CD Audio System remote.
2. Press the Menu button on the receiver or remote.
3. Turn the scroll wheel on the SKYFi Receiver or use the category keys on the remote until "Antenna Aiming" is highlighted on the receiver display.
4. With "Antenna Aiming" still highlighted, press the Enter button on the SKYFi Receiver or remote. The display will show the strength of the satellite and/or terrestrial signals. The signal strength is indicated by the number of filled bars (Figure 18).

## Antenna Mounting/Installation

### Mounting the Antenna on the Delphi CD Audio System

When outdoors with a clear view of the southern sky or in an area of XM repeater coverage, or when receiving a strong signal indoors, you can mount the XM antenna directly on the back of the Delphi CD Audio System.

1. Wind the antenna cable around the tab on the back of the lower tube, leaving several inches of cable free.
2. Fold the antenna down flat against its base.
3. Position the antenna so that the XM logo is upside down. Then place the antenna base flush against the back of the Delphi CD Audio System so that the four pegs line up with the four slots in the antenna base. Slide the antenna down approximately 3/8 inch until the antenna is securely docked. (See Figure 19).

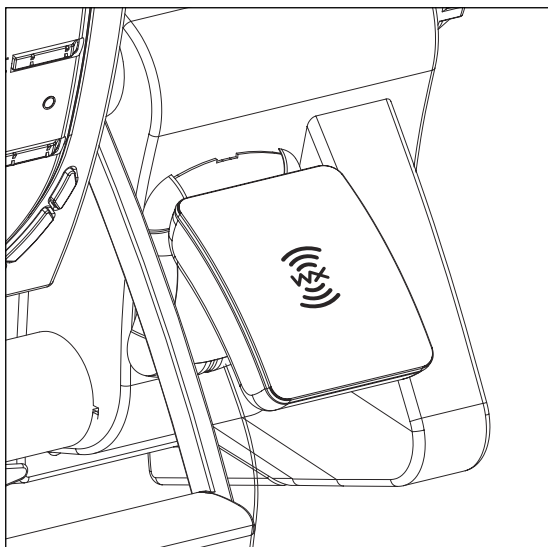


Figure 19

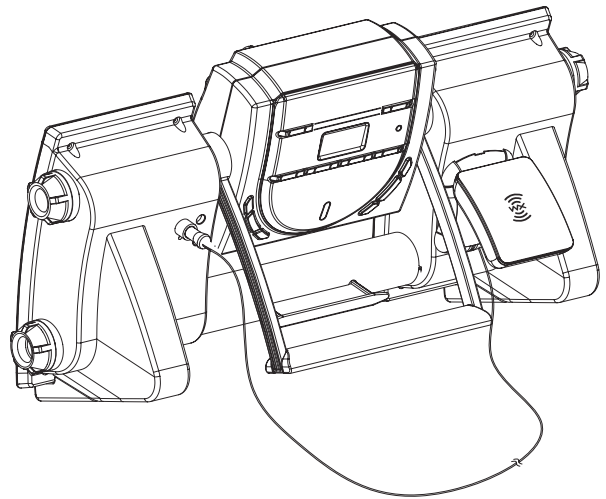


Figure 20

4. Position the antenna by pivoting the half with the XM logo away from the back of the Delphi CD Audio System. Then turn the entire system until you get the strongest signal.
5. Use the "Antenna Aiming" screen (as described under Optimizing XM Antenna Signal) to optimize the antenna tilt angle and position.

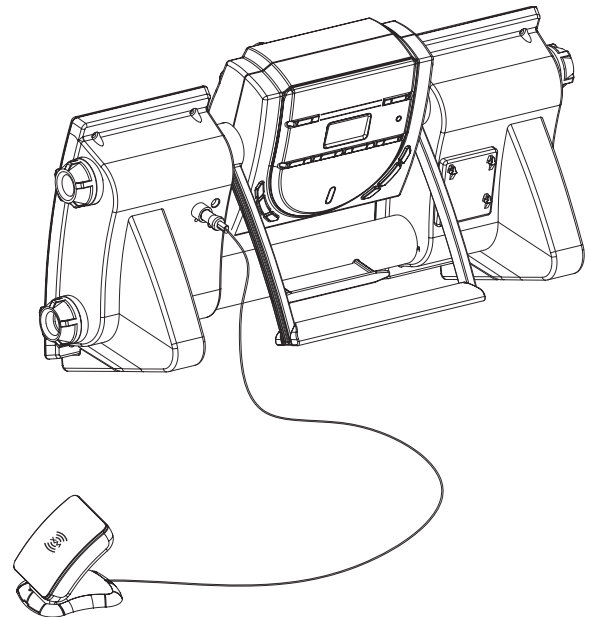


Figure 21

### Indoor Installation on a Flat Surface

To aim your antenna at the satellite:

1. Set antenna flat against its base on a flat (horizontal) surface.
2. Turn the base of the antenna so that the XM logo faces to the south.
3. Use the "Antenna Aiming" screen to optimize the antenna tilt angle and position.
4. If necessary, experiment with different locations near a south-facing window or outside.

Your antenna comes with 10 feet of cable. If that is not sufficient to locate the antenna where there is a strong XM signal, you may purchase a 50-foot cable extension (Delphi model number SA10006) from your SKYFi retailer. Up to two extensions can be used together for up to 110 total feet of cable.

### Outdoor Installation or Indoor Wall Mounting

For maximum flexibility and convenience, your XM antenna can also be attached vertically to an external or internal wall.

1. Holding the antenna up, find a wall location that provides a strong signal. It is recommended that you use an extension cord to temporarily locate your Delphi CD Audio System outdoors while optimizing the antenna location with the "Antenna Aiming" screen.
2. Attach four screws to the wall using the screw-locator pattern in Figure 22. (First, photocopy the pattern to use as a template.) Use screws with head sizes small enough to fit in the center of each of the four holes but large enough not to pop out of the elongated sections. #4 pan-head screws (3/8-inch long) are recommended. Leave 1/8 inch of the screw shanks visible between the heads and the wall.

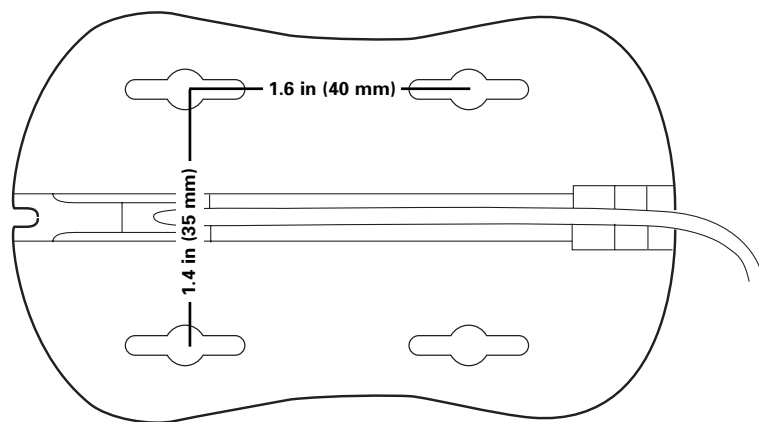


Figure 22: Screw Locator Pattern

3. Tilt the antenna fully back on its base. Place the antenna base on the four screw heads with the antenna pivot at the top, and pull down approximately 3/8 inch until the base is firmly secured on the wall. (Note that the XM logo will be upside down when the antenna is properly installed.)
4. Tilt the antenna away from the wall/base until the signal is optimized.

**Note:** Do not cut the antenna cable and attach alternative connectors or cable. The cable and connectors included with your Delphi CD Audio System are specially chosen to ensure that they will work with XM's unique frequency band. Use only an XM-approved extension kit (Delphi model number SA10006) with your SKYFi system.

## Controlling Volume, Bass, and Treble

### Controlling Volume

Use the volume knob on the SKYFi panel or the Vol+/- keys on the remote control to adjust volume when playing XM Satellite Radio stations.

If you also use your SKYFi Receiver with a SKYFi Vehicle Adaptor or Home Adaptor kit, the SKYFi Receiver will remember the volume level previously set when connected to the Delphi CD Audio System and will return to that setting the next time the system is used.

Note that the "Line Out" level cannot be reset while the SKYFi Receiver is in the Delphi CD Audio System since the volume control should be used to control the audio output. If the line out setting is adjusted while the receiver is in the SKYFi Vehicle Cradle or Home Stand and is later reconnected to the Delphi CD Audio System, it will automatically return to the prior setting the next time it is used in the SKYFi Vehicle Cradle or Home Stand.

### Bass and Treble

In SKYFi mode, bass and treble can be adjusted by pressing the "Menu" button on the SKYFi Receiver or remote, selecting "Bass + Treble," and then setting these features in the same manner as other menu functions\*.

If the SKYFi Receiver is removed from the Delphi CD Audio System and used in a vehicle or home adaptor, the bass and treble settings on the SKYFi Receiver display will be "flat" or "zero" since the audio signal will be processed by the vehicle or home audio system. When the SKYFi Receiver is returned to its cradle in the Delphi CD Audio System, it will resume the most recent bass and treble settings.

\*Refer to the *SKYFi Operating Guide* for more specific information on operating your SKYFi Receiver.

## SYSTEM SOUND OUTPUT OPTIONS

### Adjusting Speaker Balance

1. Press the Menu key on the CD panel or remote to show Menu functions on the display.
2. Press the Menu key eight times, holding on the eighth press to enter the BALANCE submenu.
3. To adjust the right speaker, press the Vol+ key on the CD panel or the Vol+ key on the remote to increase one step at a time to a maximum of R10.
4. To adjust the left speaker, press the –Vol key on the CD panel or Vol– key on the remote to increase one step at a time to a maximum of L10.

### Muting the Sound

To mute sound output during CD/MP3 and AM/FM play:

1. Press the Vol– key repeatedly on the CD panel or press the Mute key once on the remote until “MUTE” appears on the display. All other functions will continue.
2. To release, press the Mute key again or press the +Vol/Vol– key on the CD panel or Vol+ or Vol– key on the remote until volume is at the desired level.

### Headphones

You may listen to your Delphi CD Audio System through headphones. Plug the headphones into the headphone jack on the back of the right speaker enclosure. Many popular styles and types of headphones or ear buds can be used as long as their plugs and/or adaptors fit the industry standard 3.5 mm diameter stereo jack.

You may also use the headphone jack as your line output jack to play through your home stereo system. Note: Most home stereo systems will work with the Delphi CD Audio System. Due to Delphi's effort to maintain a distortion-free signal, some home systems may exhibit a lower volume output when connected to the Delphi CD Audio System compared to other sources (e.g., CD players).

**CAUTION: Hearing damage from loud noise is almost undetectable until it is too late.** Your hearing can adapt to higher volumes of sound. Sound that seems normal can be loud and harmful to your hearing. Take precautions by adjusting the volume control on your audio system to a safe sound level before your hearing adapts to it. To help avoid hearing loss or damage, do the following:

1. Adjust the volume control to the lowest setting.
2. Increase volume slowly until you hear comfortably and clearly.

## BATTERY OPERATION OF THE DELPHI CD AUDIO SYSTEM

You can operate your Delphi CD Audio System with six D-cell batteries (not supplied) outdoors or in other locations without access to an A/C power source. Alkaline or rechargeable NiCD or NiMH batteries are recommended. Battery life will vary depending on how the system is operated and the type of batteries used.

**Note:** Rechargeable batteries are available in several different capacities; the larger the “mAh” rating, the longer the Delphi CD Audio System should play. Some rechargeable batteries may provide sufficient power for only 2 to 3 hours of playing time before requiring recharging. To preserve battery life, the A/C adaptor is recommended as the primary power source for the Delphi CD Audio System. A 12V D/C adaptor (Delphi model number SA10033) is also available for use with 12V D/C portable power sources or from a parked vehicle.

*To insert batteries:*

1. Disconnect the power adaptor from the back of the Delphi CD Audio System.
2. Remove the left-side end cap from the lower tube by unscrewing the cap counterclockwise (Figure 24).
3. Insert six D-size (R20) batteries into the battery compartment (lower tube). Make sure the batteries face in the correct direction by verifying that the positive (+) and negative (-) symbols in the battery compartment match the same symbols on the batteries.
4. Removing batteries is recommended when your Delphi CD Audio System will not be in use for an extended period of time. Batteries will discharge slowly (approximately 30 days) even when the Delphi CD Audio System is not in use.

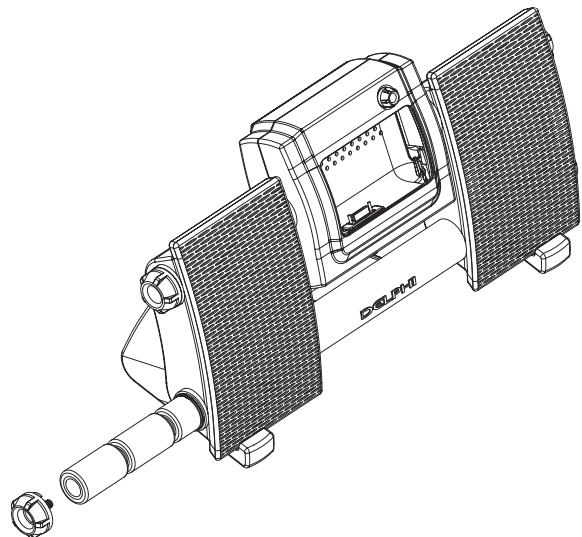


Figure 24: Battery Insertion in the Lower Tube

## Reference

### CARING FOR YOUR DELPHI CD AUDIO SYSTEM

Clean the Delphi CD Audio System cabinet and controls with a soft cloth slightly moistened with water only. Do not use any type of abrasive pad, scouring powder, or solvent, such as isopropyl alcohol or benzene.

**⚠ WARNING:** Unplug the A/C power adaptor during cleaning to avoid any electrical shock hazard.

### Precautions

**⚠ CAUTION:** Servicing of the Delphi CD Audio System should be done by qualified personnel only. In particular, do not disassemble the CD player housing. The laser beam is harmful to the eyes. Follow these additional safety precautions:

- Do not attempt to remove solid objects or liquids that fall into the Delphi CD Audio System. Discontinue operation, unplug the unit, and consult qualified service personnel.
- Do not use non-standard compact discs (e.g., mini discs or square-, heart-, or star-shaped discs) in the Delphi CD Audio System. Attempting to use non-standard discs may damage the unit.

### Power Sources

- For A/C operation, it is recommended that only the supplied A/C power adaptor be used. If another adaptor is needed, make sure it is a 12V, 1800mA D/C adaptor with a unified polarity-type jack.
- As long as the Delphi CD Audio System is connected to the wall outlet, it will continue to draw power, even if it is turned off.
- Unplug the A/C power adaptor from the wall outlet when the Delphi CD Audio System is not to be used for an extended period of time.
- The Delphi CD Audio System takes six D-size (R20) batteries.
- When the batteries are not being used, remove them. This will help avoid possible damage to your Delphi CD Audio System from battery leakage or corrosion. Batteries will discharge slowly, even when the Delphi CD Audio System is not being used. (New alkaline batteries will discharge in approximately 30 days when left unused in the Delphi CD Audio System.)

### Placement

- Place the Delphi CD Audio System on a flat and stable surface to reduce the risk of the unit falling and breaking.
- Protect the Delphi CD Audio System from the direct rays of the sun, which can damage the unit.
- Keep spring-wound watches or personal credit cards using magnetic coding away from the Delphi CD Audio System. The strong magnets used for the speakers can erase magnetic coding and can impair watch function.

**⚠ CAUTION:** The two-inch-long bass response ports on either side of the top tube on your Delphi CD Audio System are designed to maximize airflow to the speakers for improved bass response. Inserting objects into these openings may impair speaker function and can damage the unit.

### Protecting From Water Damage

- Before opening or closing the Delphi CD Audio System CD player or battery compartment cover, be sure to wipe off any water, dust, or sand on the outside of the unit.
- The supplied A/C power adaptor is not water-resistant. To avoid electrical shock hazard, do not use the Delphi CD Audio System near water during A/C operation.
- Do not wash under running water. Water in the headphone jack or other jacks and openings may cause rusting and possible malfunction.
- Do not use soap or detergent.
- If the Delphi CD Audio System is splashed with salt water or other liquid, wipe clean with a damp cloth, then dry with a soft, dry cloth.
- Do not dry with an electric hair dryer, as the unit's plastic parts are not rated to withstand the high temperatures generated by hair dryers.
- When transferring the Delphi CD Audio System from a cold location to a warm location, or when placing it in a humid location, condensation may form on the CD player lens. If this happens, allow the moisture to evaporate for at least one hour before inserting and/or playing a compact disc.

**⚠ CAUTION:** The Delphi CD Audio System is not designed to be immersed in water or other liquids or come in continuous contact with water.

## TROUBLESHOOTING

If this happens:	You should:
There is no power (or, if in SKYFi mode, SKYFi starts then shuts off quickly).	<ul style="list-style-type: none"> <li>• Securely and safely connect the A/C power adaptor to a wall outlet with 120V A/C output.</li> <li>• Ensure batteries are inserted correctly.</li> <li>• Check battery strength; if they are weak, replace all batteries with new ones.</li> </ul>
There is no audio.	<ul style="list-style-type: none"> <li>• Confirm that the desired function appears in the display; if not, adjust the mode of your Delphi CD Audio System.</li> <li>• Adjust the volume.</li> <li>• Unplug the headphones.</li> <li>• If in SKYFi mode, remove the SKYFi Receiver from its cradle and re-insert.</li> </ul>
Noise is heard coming through the audio system.	<ul style="list-style-type: none"> <li>• Move portable telephones or other equipment that emits radio waves (~2.3GHz) away from the Delphi CD Audio System.</li> </ul>
The audio is weak or poor quality in AM/FM mode.	<ul style="list-style-type: none"> <li>• Check battery strength; if they are weak, replace all batteries with new ones.</li> <li>• Move the Delphi CD Audio System away from the television.</li> </ul>
"NO DISC" or "ERROR" appears in the display.	<ul style="list-style-type: none"> <li>• Re-insert the compact disc, ensuring the label faces up.</li> <li>• Verify that the CD is a compatible file format (see page 6 for compatible MP3 file formats).</li> <li>• Finalize the CD-R or CD-RW with the recording device.</li> <li>• Make sure the CD-R or CD-RW is not blank.</li> <li>• Check the recording device and application software. There may be a problem with the quality of the CD-R or CD-RW.</li> </ul>
The compact disc does not play.	<ul style="list-style-type: none"> <li>• Check to make sure the CD player cover is closed.</li> <li>• Re-insert the compact disc, ensuring the label faces up.</li> <li>• Confirm that your Delphi CD Audio System is in CD mode (CD panel facing forward and locked in position).</li> <li>• Verify that the CD is a compatible file format (see page 6 for compatible MP3 file formats).</li> <li>• Clean the CD (see page 4 for tips on proper cleaning).</li> <li>• Remove the CD, and leave the compartment open for at least one hour to allow moisture condensation to evaporate.</li> </ul>
The audio cuts out or sound becomes distorted when playing a CD, CD-R, CD-RW, or MP3.	<ul style="list-style-type: none"> <li>• Reduce the volume.</li> <li>• Check the compact disc for dirt, fingerprints, or scratches. Clean it if it is dirty, or replace it if badly damaged.</li> <li>• Move the Delphi CD Audio System to a location free from vibration.</li> <li>• Check the recording device and application software. There may be a problem that affects the quality of the CD-R or CD-RW.</li> </ul>
There are issues related to functioning of the SKYFi Receiver or satellite radio signal reception.	<ul style="list-style-type: none"> <li>• Refer to the <i>SKYFi Operating Guide</i>, included with your SKYFi Receiver.</li> </ul>

## Contacting Product Technical Support and Customer Service

If problems persist after trying all of these troubleshooting steps, unplug the A/C power adaptor and remove all batteries. Wait until the CD panel or SKYFi Receiver display clears completely, then plug the A/C power adaptor back in and re-insert batteries. If this does not fix the problem, contact Delphi at 1.877.GO DELPHI (1.877.463.3574) Monday through Friday.

- Technical Support: 8 a.m. to 5:00 p.m. Eastern Standard Time

## TECHNICAL INFORMATION

### Audio Power Specifications

#### Power Output and Harmonic Distortion

With 3.2-ohm loads, both channels are driven from 150 to 10,000 Hz; rated 2.3 W per channel—minimum RMS power, with no more than 10 percent total harmonic distortion in A/C operation.

### Other Specifications

#### CD/MP3 Player

<b>System</b>	Compact disc digital audio system
<b>Laser diode properties</b>	
Material	GaAlAs
Wavelength	780 nm
Emission duration	Continuous
Laser output <sup>(1)</sup>	<44.6 mW
<b>Spindle speed</b>	200 rpm to 500 rpm (CLV)
<b>Number of channels</b>	2
<b>Frequency response</b>	70 Hz – 20 kHz +1/-3 dB
<b>Wow and flutter</b>	Below measurable limit

(1) Value measured at -200 mm from the objective lens surface on the optical pickup block with a 7 mm aperture.

#### General

<b>Speakers</b>	Full range: 10 cm (4 in.) diameter, 3.2 W, cone type (2)
<b>Outputs</b>	3.5 mm diameter ministereos jack
<b>Power output</b>	2.3 W + 2.3 W (at 3.2 W, 10 percent harmonic distortion)
<b>Power requirements</b>	
Delphi CD Audio System D/C IN 12V jack	Accepts supplied A/C power adaptor for use with 120 V A/C, 60 Hz
Battery operation	Accepts 6 D-size (R20) batteries (not included)
Remote control	Requires 2 AAA-size batteries (included)
<b>Dimensions</b>	
Delphi CD Audio System	20 in. W x 10 in. H x 7.5 in. D (50.8 cm x 25.4 cm x 19.1 cm)
Remote control	4-5/8 in. W x 1-5/8 in. H x 1 in. D (117 mm x 40.5 mm x 25 mm)
<b>Weight</b>	
Delphi CD Audio System	5 lbs. 13 oz. (2.64 kg)
FM antenna	7.8 oz. (.22 kg)
Remote control	2.1 oz. (.06 kg)
<b>Construction</b>	Body made of durable, ABS plastic; handle has thermoplastic rubber (TPR) insert for easy grip
<b>Liquid crystal display (LCD)</b>	40 mm x 20 mm dot matrix with orange LED backlighting
<b>Supplied accessories</b>	12V A/C power adaptor Integrated remote control High-gain satellite radio antenna

#### AM/FM Radio

<b>Frequency range</b>	
AM	530 – 1710 kHz
FM	87.5 – 107.9 MHz
<b>Antenna</b>	AM internal FM telescoping



## Warranty

### PORTABLE XM SATELLITE RADIO LIMITED CONSUMER WARRANTY

Delphi Product and Service Solutions ("Delphi") warrants all Portable XM Satellite Radio Products sold by Delphi ("Products") to be free of defects in material and workmanship, subject to the following conditions.

The duration of Delphi's warranty with respect to Delphi Portable XM Satellite Radio Products is limited to one (1) year from the date of sale to the original consumer purchaser.

**No other express warranties are made with respect to any Product. All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited to the warranty period set forth above. This warranty is not transferable and applies only to the original consumer purchaser of the Product.**

Delphi will, as its sole obligation under this warranty, replace or repair, at its option, any Product that does not conform to this warranty. Under no circumstances will Delphi be liable for any incidental or consequential damages under this warranty or any implied warranties.

Delphi will not be responsible for damage resulting from any (i) deviation from Delphi's operating instructions as printed in Delphi's catalog or on any packaging, labels or other literature provided with a Product, (ii) installation of a Product in a manner which is inconsistent with Delphi's written instructions, (iii) alteration or modification of a Product, (iv) misuse, (v) neglect, (vi) abuse, (vii) accident, (viii) normal wear and tear, (ix) commercial use, (x) service by anyone other than a Delphi authorized repair facility, or (xi) other improper application, installation or operation of the Product.

### How You (the Customer) Can Get Service

To obtain warranty service during the first thirty (30) days after the date of purchase, you must return the defective Product with the original receipt to the original place of purchase. To obtain warranty service during the remainder of the warranty period, you must contact Delphi by phone at 1-877-GO DELPHI (1-877-463-3574).

**If warranty service is needed at any time during the warranty period, the purchaser will be required to furnish a sales receipt/proof of purchase indicating the date of purchase, amount paid and place of purchase. Customers who fail to provide such proof of purchase will be charged for the repair of any Product.**

### How State Law Relates to the Warranty

COPY: Some states do not allow limitations on how long implied warranties last, or the exclusion or the limitation of incidental or consequential damages. So the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights that may vary from state to state.

**NO PERSON IS AUTHORIZED BY DELPHI TO MODIFY OR ADD TO THIS LIMITED WARRANTY.**

**For Customers in the United States**

This device complies with part 15 of the FCC rules.  
Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved  
by Delphi could void the warranty.

# DELPHI

Delphi Corporation  
1441 West Long Lake Road  
Troy, Michigan 48098-5090  
U.S.A.  
Customer Service: [1] 877.GO DELPHI

[www.delphi.com](http://www.delphi.com)

The SKYFi name, XM name, and related logos are trademarks of XM Satellite Radio Inc.